ELECTRIC FENCING PRODUCTS THAT DELIVER PEACE OF MIND

NEW PRODUCTS

safe, smart, secure.

GPS™
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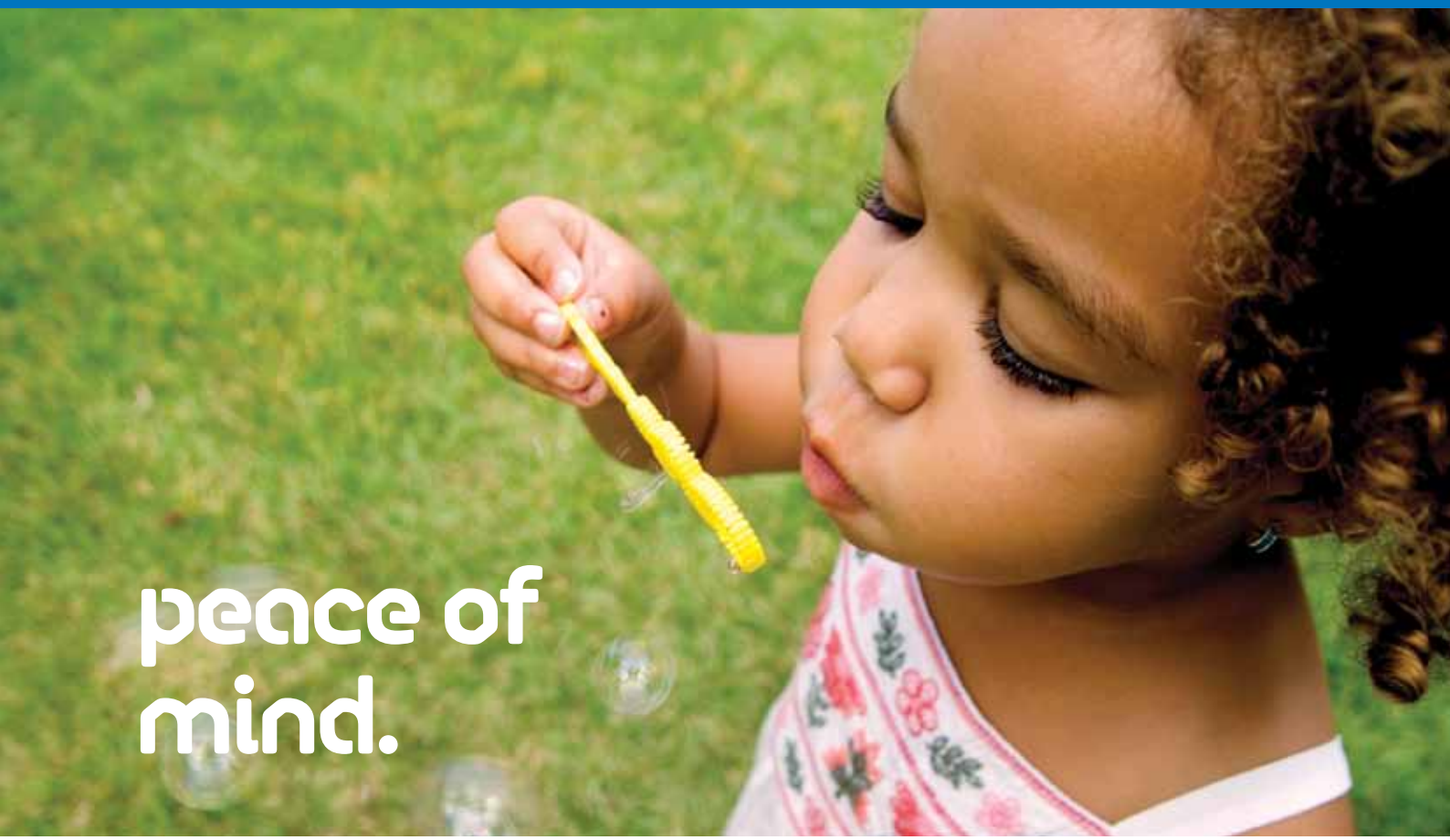
Electric Fencing Products



Nemtek, a pioneer in its field, has become the benchmark for the security electric fencing industry. The Nemtek group manufactures a full range of energizers and fencing hardware and has become a globally known and respected company.

Nemtek products have become a household name and are now being specified by many governments, local authorities and industries as the product of choice to protect their utilities, correctional facilities and defence infrastructures. This has been achieved by Nemtek's continuous innovation, fast response to the changing dynamics experienced in the security field, the reliability of their products and the continuous support and close working relationship with their clients.

This brochure offers you a holistic look into the electric fencing products that Nemtek designs and manufactures, which include a comprehensive range of electric fencing energizers and a complete range of fencing hardware. The Nemtek range addresses many types of fencing needs ranging from domestic, retail and commercial, to airports, power stations, defence facilities and utilities.

Nemtek's experience in the security field has revolutionised the way game farm and animal farm energizers are designed, not only to keep animals in, but now they also offer security experience and communication techniques to combat the theft of animals by poachers.

ELECTRIC FENCING PRODUCTS THAT DELIVER PEACE OF MIND

WHY ELECTRIC FENCING FOR SECURITY?

DETER, DETECT AND DELAY

A high voltage shock combined with a physical barrier will deter anyone from attempting to penetrate the perimeter fence.

The detecting ability of a Nemtek electric fence energizer will sound an alarm when the perimeter of the property being protected has been infiltrated or tampered with.

By keeping the perimeter protected using an electric fence, the attempted break in of the protected area is delayed, giving additional time for a reaction team to respond.

WHY SECURITY ELECTRIC FENCING FOR GAME AND ANIMAL CONTROL?

Traditionally electric fence energizers for animal farming control did not have a fence monitor to detect a break in the fence.

The detecting feature has become an integral part of game and animal control. It allows the user to monitor the condition of the fence at the energizer without having to patrol the fence regularly, thus saving time and money. Poaching of game is an additional problem faced by game reserves and game farms, but the security features offered by the Nemtek electric fencing energizers can assist in this battle.

NEMTEK™ FAMOUS BRANDS

- **Druid™ energizers**
- **Wizord™ energizers**
- **Merlin Stealth™ energizers**
- **Sage™ management systems**
- **FenceScope™ fence tool**
- **APT**
- **Nemtek Agri**

GPS™
Perimeterlarm

Nemtek products have become the benchmark in the electric security fencing industry.

The Nemtek group manufactures and supplies a full spectrum of energizers and fencing hardware for industrial, commercial and residential applications, and is the product of choice to protect and deliver peace of mind.

Patents:
Nemtek's innovative culture has resulted in the company filing for many patents and trademarks around the world to protect its intellectual property and inventive spirit.

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ENERGIZERS

DRUID™ 13 LCD, 15 LCD

The Druid 13 and 15 offer 3.0 J and 4.6 J output energy.

Using the **Adaptive Power Technology (APT)**, pioneered and patented by Nemtek, these two energizers offer a new and unique method in detecting how much power a fence can accept and handle before it starts to arc and waste energy. This allows the fence to operate at higher voltages and more efficiently.

Changes in the surrounding environment can affect a fence's efficiency. The APT actively analyses the fence and adapts the transfer of power as required to ensure maximum performance.

These Nemtek energizers are an excellent choice for coastal areas, where the salt build-up during the dry season can result in increased power losses along the fence. The APT feature will modify the output pulse to maximise the transfer of power onto the fence and minimise arcing. The energizer ensures that the fence only receives the amount of power it can manage thus making it energy efficient and economical.

- LCD display shows information which is quick and easy to read
- The background colours on the LCD display, give a quick glance indication of the energizer status without the user having to approach the unit in order to read the display. For example, "green" indicates all is fine, "orange" indicates that attention is required and "red" indicates an alarm condition. The coloured lights are visible from a distance, and are quick to spot
- The Druid LCD range can accept up to two keypads to remotely control the energizer
- Quick walk test mode on the system offers the installer a quick test facility to walk the fence and test it
- High voltage monitor will sound alarm when the live wires are tampered with
- Earth wire monitor will sound alarm when there is tampering with the earth wires
- Easy to use tag switch for controlling the unit if the keypad option is not used
- Connectable to an armed response radio
- Gate monitor input monitors the position of the gate to indicate if the gate is open
- Lightning and power surge suppression is built in to reduce the possibility of damage due to power surges
- Internal battery backup system in case of power failure
- Intelligent power saving to extend the battery life and save energy

DRUID™ 18 LCD

The Druid 18 LCD is a powerful version of the Druid 15 LCD, boasting 7.2 output Joules into 500 Ω load. This intelligent unit is the ideal choice for large series security fencing systems. It will maintain a high voltage on the fence by using Nemtek's Adaptive Power Technology (APT). APT will modify the pulse to maximise fence power into the fence by actively testing the fence. Fence characteristics are not always stable and change with time, weather and vegetation.

- LCD display shows information which is quick and easy to read
- The background colours on the LCD display, give a quick glance indication of the energizer status without the user having to approach the unit in order to read the display. For example, "green" indicates all is fine, "orange" indicates that attention is required and "red" indicates an alarm condition. The coloured lights are visible from a distance, and are quick to spot
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- Earth wire monitor will sound alarm when there is tampering with the earth wires
- Easy to use tag switch for controlling the unit if the keypad option is not used
- Connectable to an armed response radio
- Gate monitor input monitors the position of the gate to indicate if the gate is open
- Lightning and power surge suppression is built in to reduce the possibility of damage due to power surges
- Internal battery backup system in case of power failure
- Intelligent power saving to extend the battery life and save energy
- Relay outputs, which can be used to control lights. It can also have a timer mode to activate and deactivate these functions
- Inputs compare to the Druid 15/13 LCD for mounting and controlling for example, day/night switching, gate inputs, panic buttons

DRUID™ 114 LCD

The Druid 114 LCD has a revolutionary design which offers both the security features with game and animal requirements. It is the ideal choice for long parallel fencing systems which require monitoring. APT allows the Druid 114 LCD to correctly deliver its energy where larger units fail. The fence characteristics change over time as the fence ages and are not stable due to weather and vegetation. APT technology will modify the energizer's output characteristics to maximise the power transfer in these situations. The Druid 114 LCD boasts an output of 13.8 Joules into 150 Ω fence and an impressive voltage of 7 100 V. At 100 Ω, it delivers 13.4 Joules output at 5 600 V.

- LCD display shows information which is quick and easy to read
- The background colours on the LCD display, give a quick glance indication of the energizer status without the user having to approach the unit in order to read the display. For example, "green" indicates all is fine, "orange" indicates that attention is required and "red" indicates an alarm condition. The coloured lights are visible from a distance, and are quick to spot
- The Druid LCD range can accept up to two keypads to remotely control the energizer
- Quick walk test mode on the system offers the installer a quick test facility to walk the fence and test it
- High voltage monitor will sound alarm when the live wires are tampered with
- Earth wire monitor will sound alarm when there is tampering with the earth wires
- Easy to use tag switch for controlling the unit if the keypad option is not used
- Connectable to an armed response radio
- Gate monitor input monitors the position of the gate to indicate if the gate is open
- Lightning and power surge suppression built in to reduce the possibility of damage due to power surges
- Internal battery backup system in case of power failure
- Intelligent power saving to extend the battery life and save energy

WIZORD™ 2 and 4

The Wizord 2 (formerly known as the Druid 2) has been welcomed into this category of unsurpassed reliability and field testing success and stability. The Wizord 4 is the logical choice for domestic and light industrial installations where a medium powered energizer is required. This generation of energizers has been field tested for many years and boasts unsurpassed reliability. Simple to install and easy to maintain.

FEATURES

- High voltage monitor will alarm when the live wires are tampered with
- Earth wire monitor will alarm when the earth wires are tampered with
- Easy to use tag switch for controlling the unit
- Can be upgraded to a Merlin 4 energizer
- Connectable to an armed response radio
- Gate monitor input monitors the position of the gate to indicate if the gate is open
- Lightning and power surge suppression built in to reduce the possibility of damage due to power surges
- Battery backup system in case of power failure
- Intelligent power saving to extend the battery life and save energy
- Siren and strobe outputs to indicate fence condition

MERLIN 4

The Merlin 4 offers what the Wizord 4 has in terms of features, but with remote control through a dedicated keypad. The keypad also allows the user and the installer to program and control the energizer from a remote location. This allows the energizer to be installed near the fence and the keypad to be located where it is most convenient for the user. Additional features that the standard Wizord does not have, can be enabled through the keypad.

FEATURES

- Siren trigger times and frequency can be adjusted as required
- Voltage outputs can be controlled to reduce or increase the output energy as required by the user
- High and low voltage modes to change the power output of the energizers and yet keep the alarming capability intact
- Gate chime to notify if the gate has been opened and closed
- Bypass options for the siren, strobe and gate as required
- Siren times can be programmed to suit the different needs of the user

MERLIN STEALTH M15S, M18S, M25S, M28S

The Nemtek Merlin Stealth is a powerful range of energizers, that can be used as simple high end security energizers, but can also be programmed to offer a customised solution. The Merlin Stealth range is ideal for higher security requirements and can be networked if required. There are:

- Single zoned energizers, the M15S, M18S, and the M113S which are ideal for game and animal control
- Dual zone energizers, the M25S and the M28S offer two monitored zones in one energizer

SINGLE (M15S, M18S) AND DUAL ZONE (M25S, M28S) ENERGIZER FEATURES

- High voltage monitor will sound alarm when the live wires are tampered with
- Earth wire monitor will sound alarm when there is tampering with the earth wires
- Easy to use tag switch for controlling the unit with a keypad being optional
- Connectable to armed response
- Gate monitor input monitors the position of the gate to indicate if the gate is open
- Lightning and power surge suppression built in to reduce the possibility of damage due to power surges
- Battery backup system in case of power failure
- Intelligent power saving to extend the battery life and save energy
- RS 232 output, which can be used to connect the energizer into a networked system

M25S AND M28S ADDITIONAL FEATURES

Dual zone energizers boast the same features as the single zoned Merlin Stealth energizers, with a few extras. This makes the unit a cost effective solution where more than one zone is required.

- Dual zones, both in High voltage and Earth wire monitoring
- Synchronised zones to conform to the IEC 60335-2-76 output characteristics
- Smart design allows the maximum amount of energy to be transferred to the zone that needs it, yet the combined energy of the two zones will not exceed the legal maximum permitted
- Ideal product for networking and large fence system requirements
- RS 232 output, which can be used to connect two dual zone energizers to create a four zone system

ENERGIZER SPECIFICATIONS

Nemtek Energizer Brand	Druid				Wizord		Merlin	Merlin Stealth ™				Stealth Master	
Model Number	**13 LCD**	**15 LCD**	**18 LCD**	**114 LCD**	**2**	**4**	**4**	**M15S**	**M18S**	**M25S**	**M28S**	**M25M**	**M28M**
High Voltage Outputs													
Typical energy output into 500 Ohms load (Joules)	3J	4.6J	7.6J	13.8J (150 Ω)	2J	3.7J	3.7J	4.8J	7.6J	4.8J	7.6J	4.8J	7.6J
Output Voltage into an open circuit	9 000V	9 000V	9 600V	9 000V	7 400V	8 000V	8 000V	8 500V	9 300V	8 500V	9 300V	8 500V	9 300V
High or Low Voltage modes, alarm monitoring is enabled in both modes	Yes	Yes	Yes	Yes	Fixed	Fixed	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Output voltage settings can be changed for both the High and the Low voltage modes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Number of High Voltage monitored zones	1	1	1	1	1	1	1	1	1	2	2	2	2
Number of Earth loop monitored zones	1	1	1	1	1	1	1	1	1	2	2	2	2
Adaptive Power Technology (APT), reducing false alarms and arcing on the fence	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
Fence Interference detection from foreign energizers	Yes	Yes	Yes	Yes	No	Yes	Yes	No	No	No	No	No	No
Energizer Controls and Displays													
Keypads for the remote control of the energizer	2 max	2 max	2 max	2 max	No	No	4 max 1 incl	4 max	4 max	4 max	4 max	4 max	4 max
Tag switch – to control the energizer without using a keypad	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Remote On/Off input	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*
Displays the output and return voltages	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No
Display type	LCD	LCD	LCD	LCD	LED	LED	LED	LED	LED	LED	LED	LED	LED
Gate and Panic Button inputs													
Timed gate switch input, used to monitor open and closing of the gate	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*
Panic button input	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*
Alarm outputs													
Siren output, time programmable	Yes	Yes	Yes	Yes	Fixed	Fixed	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Strobe light output to visually indicate an alarm condition	1	1	1	1	1	1	1	1	1	2	2	2	2
Power supply and battery backup systems													
Mains supply voltage***	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V
Typical power consumption under normal operating conditions	18VA	18VA	25VA	17VA	17VA	18VA	16VA	27VA	23VA	27VA	25VA	27VA	25VA
Internal battery backup system in case of power failure, capacity of battery	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah	7 Ah
Typical standby time, with a fully charged battery	24 hrs	24 hrs	24 hrs	9 hrs	24 hrs	36 hrs	24 hrs	6 hrs	8 hrs	7 hrs	6 hrs	7 hrs	6 hrs
Solar power panels can be connected to power the energizers, (recommend Watt size for 24 hr operation)**	60 Watts	60 Watts	140 Watts	140 Watts	-	60 Watts	60 Watts	120 Watts	140 Watts	120 Watts	140 Watts	120 Watts	140 Watts
Solar voltage regulator	5 Amp	5 Amp	10 Amp	10 Amp	-	5 Amp	5 Amp	9 Amp	10 Amp	9 Amp	10 Amp	9 Amp	10 Amp

Druid 114 maintains a voltage of 5 600 V into a 100 Ω load at 13.4 J and the voltage is at 7 100 V at a maximum of 13.8 J output into a 150 Ω load.

Nemtek Energizer Brand	Druid				Wizord		Merlin	Merlin Stealth ™				Stealth Master	
Model Number	**13 LCD**	**15 LCD**	**18 LCD**	**114 LCD**	**2**	**4**	**4**	**M15S**	**M18S**	**M25S**	**M28S**	**M25M**	**M28M**
Deep cycle battery size recommended in Amp hours (20 % discharge over a 24 hr cycle)	60 Ah	60 Ah	150 Ah	150 Ah	-	60 Ah	60 Ah	120 Ah	150 Ah	120 Ah	150 Ah	120 Ah	150 Ah
Wire length per energizer (live wires in a series system) for both solid and stranded wires													
Galvanised wires, 1.2 mm													
• Optimal performance up to	3km	5km	10km	15km	2km	3km	3km	8km	10km	2x4km	2x5km	2x4km	2x5km
• Maximum	5km	8km	25km	35km	4km	5km	5km	18km	25km	2x9km	2x13km	2x9km	2x13km
Galvanised wires, 2.0 mm, 2.24 mm													
• Optimal performance up to	3.3km	5km	20km	20km	3km	4km	4km	16km	20km	2x8km	2x10km	2x8km	2x10km
• Maximum	6.6km	12km	50km	50km	6km	10km	10km	35km	50km	2x17km	2x25km	2x17km	2x25km
Stainless Steel 1.0 mm, 304 and 316 grade													
• Optimal performance up to	0.6km	0.7km	0.8km	0.9km	0.5km	0.6km	0.6km	0.6km	0.7km	2x0.7km	2x0.8km	2x0.7km	2x0.8km
• Maximum	0.9km	1km	1km	1.2km	0.6km	0.9km	0.9km	0.9km	1km	2x1km	2x1.2km	2x1km	2x1.2km
Stainless Steel 1.2 mm, 304 and 316 grade													
• Optimal performance up to	0.7km	0.8km	1km	1km	0.6km	0.7km	0.7km	0.8km	1km	2x0.8km	2x1km	2x0.8km	2x1km
• Maximum	1km	1.1km	1.3km	1.3km	0.9km	1km	1km max	1.1km	1.3km	2x1.1km	2x1.3km	2x1.1km	2x1.3km
Stainless Steel 1.6 mm, 304 and 316 grade													
• Optimal performance up to	1.4km	1.6km	2km	2km	1.2km	1.4km	1.4km	1.6km	2km	2x1.6km	2x2km	2x1.6km	2x2km
• Maximum	2km	2.2km	2.6km	2.6km	1.8km	2km	2km	2.2km	2.6km	2x2.2km	2x2.6km	2x2.2km	2x2.6km
Stainless Steel 2.0 mm, 304 and 316 grade													
• Optimal performance up to	2.1km	2.4km	3.3km	3km	1.8km	2.1km	2.1km	2.4km	3.3km	2x2.4km	2x3km	2x2.4km	2x3km
• Maximum	3km	3.3km	3.9km	3.9km	2.7km	3km max	3km	3.3km	3.9km	2x3.3km	2x3.9km	2x3.3km	2x3.9km
Aluminium Wire 1.6 mm and 2.0 mm													
• Optimal performance up to	8km	10km	40km	40km	6km	8km	8km	32km	40km	2x16km	2x20km	2x16km	2x20km
• Maximum	16km	20km	80km	80km	12km	16km	16km	60km	80km	2x30km	2x40km	2x30km	2x40km
Multi energizer systems													
Using the Stealth Master system, per Master										up to 9	up to 9		
Using the Sage system and the Nemtek fence probe software, number of energizers per Sage								up to 32	up to 32	up to 32	up to 32		
Using the Proxy controller and Cortech software, number of energizers per Proxy								up to 32	up to 32	up to 32	up to 32		
Compliance													
IEC 60335-2-76	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Cispr 14, EN 61000,	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes

YES* indicates that this function is available at the cost of another function, further details are on our website www.nemtek.com. Output energy is a function of component tolerance and energy settings, and is reduced during power failure.

** Solar Panel sizes and Battery capacities are based on the exposure to sunlight in southern Africa and can change depending on the location of the solar panels.

*** All energizers are manufactured with a 230Vac ± 10% transformer, 110 Volts are available on request. Batteries are supplied as a standard.

Specification may change without prior notice.

NETWORKED ENERGIZER AND COMMUNICATING ACCESSORIES

MERLIN STEALTH MASTER M25M, M28M

The Merlin Stealth Master energizer, is a dual zone energizer and can control up to nine standard Merlin Stealth dual zone energizers. That means a total of 10 energizers can be controlled together and divided up into 20 fence zones.

Any number of dual zone energizers can be networked, forming a basic 4 zone, 6 zone or up to the 20 zone system as required.

The complete control of the system is done through a 20 zone keypad which is supplied with the Merlin Stealth Master energizer.

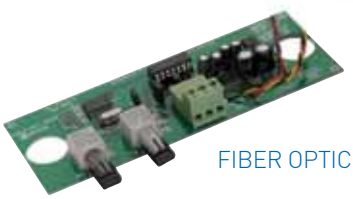
FEATURES OFFERED BY THE 20 ZONE MASTER CONTROLLER SYSTEM

- The master energizer is also an energizer with two zones thus the cost per zone is reduced
- It can be configured with any number of energizers that the system requires (max of 10 including the master)
- Uses existing proven 16 Mhz Merlin Stealth dual zone energizer units as slaves
- Multi energizers offer an increased level of security – the zones run independently, so even if there is a breach of 1 zone, the rest of the zones will not be compromised
- Individual slave energizers can also be controlled by the 20 zone keypad
- Controls the energy output per adjacent zones so that the system does not exceed the maximum legally permissible output

COMMUNICATION CARDS

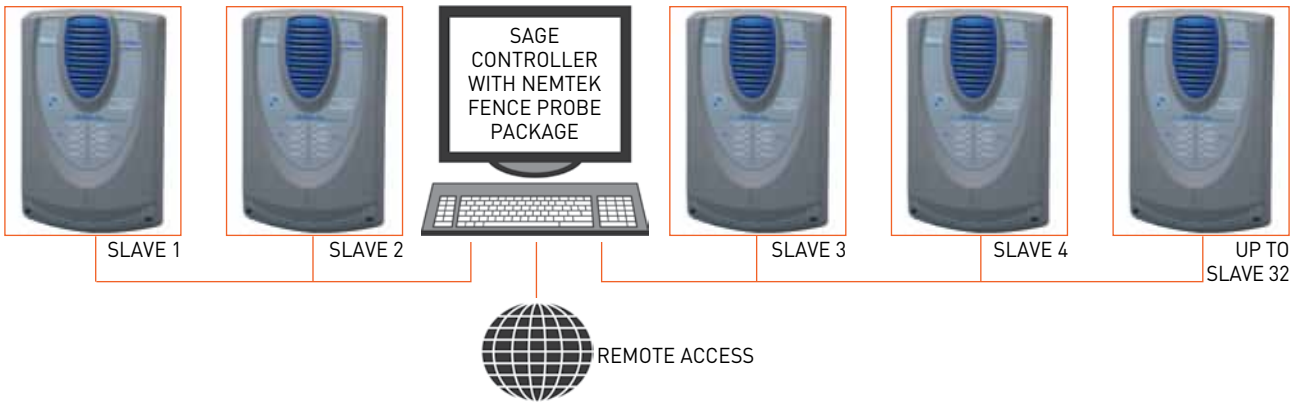
Both the Fiber Optic card and the RS485 cards can be installed inside the Merlin Stealth energizer housing and are powered by the energizer. Fiber Optic cards are the preferred option and must be used in high lightning areas.

RS485 CARDS



FIBER OPTIC CARD

SAGE™ AND FENCE PROBE SOFTWARE



The Sage controller enables multi energizers to be networked and controlled from a multitude of user interfaces, which can be located locally on the system, or anywhere in the world.

The information generated from the Sage controller can then be used in conjunction with our Nemtek Fence Probe graphic package to simplify and increase the user's ability to control the system. This system is used in areas requiring

- a high level of control and flexibility
- accountability of the operators
- detailed real time reporting
- recording and monitoring of the system or systems

Many single energizer sites, such as cellphone towers, electrical switching stations and sub stations, can be controlled from a single security point.

Many options are available when setting up the system, allowing for tailor-made security solutions. Access and control of the security system can be achieved by a computer on the network, mobile phones, PDAs, internet access, dial in and dial out.

REMOTE ACCESS

- TCP/IP protocols supported include http, ppp, snmp and ssh, allowing for control of the system through any web browser and secure password control
- Cellular phones, using GPRS modems offer another feature that can be used to control the system and extract information
- Local network management, for localised control of the security system

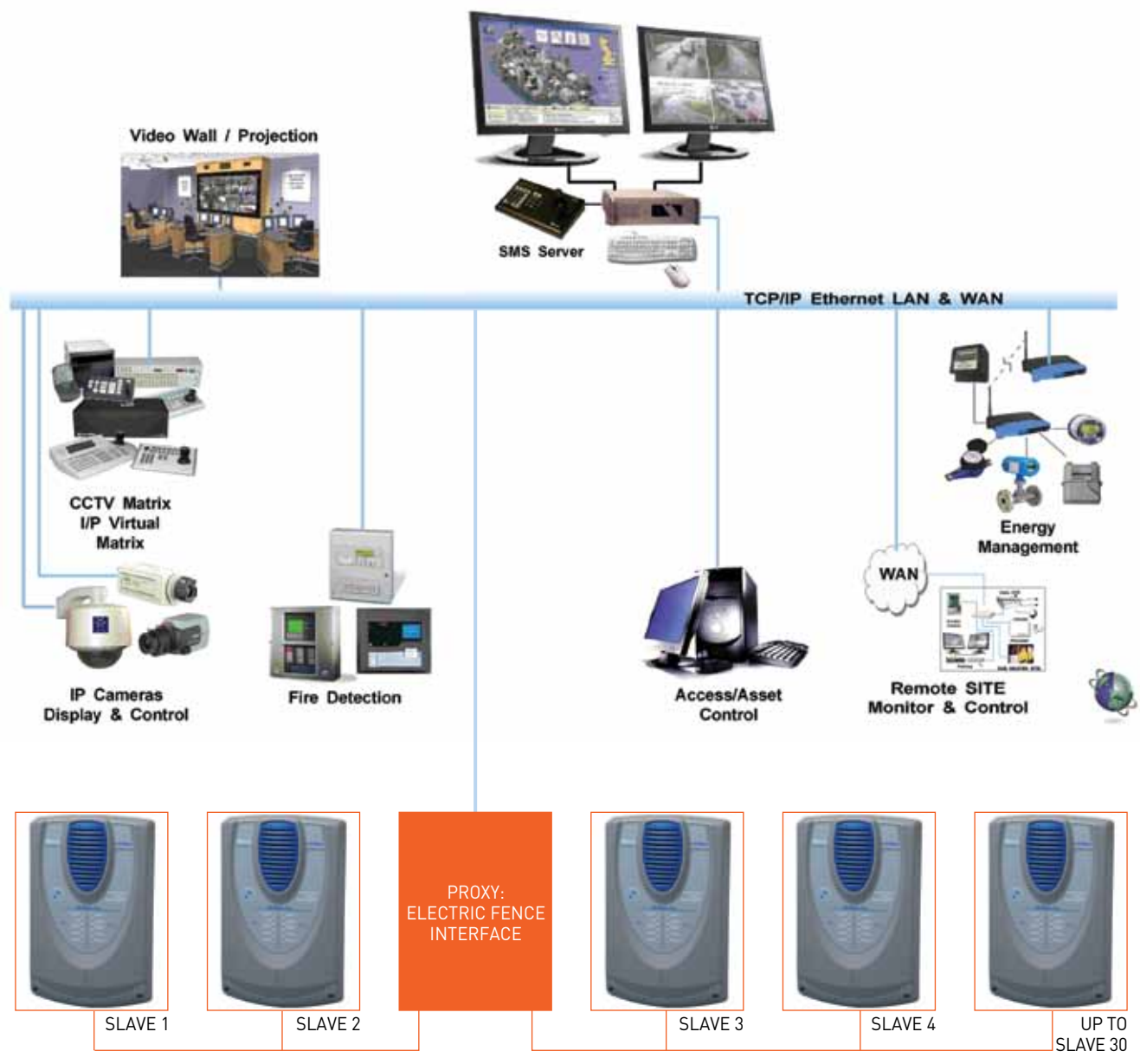
GRAPHIC SOFTWARE AND CONTROL

The Nemtek Fence Probe software is a graphical user interface for supporting any number of Sage controllers. Utilising the snmp protocol, network management becomes operator independent. A log of all events is recorded automatically. Different events may require different responses and actions. Certain events may require a simple graphical warning on a screen, such as mains failure or gate bypass, whilst others may require the sending of emails and SMS messages to technical support staff.

PROXY MANAGEMENT SYSTEM

Cortech Developments is a company that specialises in large scale security and control software (integration). Nemtek's Merlin Stealth energizer can interface with this software using the Proxy controller. The Proxy allows the electric fence to be interfaced with the Cortech software management systems enabling the electric fence to be part of a larger security system.

Please visit www.cortech.co.uk for further information.



BRACKETS AND ACCESSORIES

OMEGA BRACKETS

The Omega bracket offers a flexible solution to the piggy back systems, where an electric fence can use the mechanical strength of an existing fence to reduce the cost of constructing a complete new system. The Omegas can also be used to secure windows and roofs, thus making this bracket an extremely versatile and flexible solution. The pre punched holes allow options of where insulators can be fixed.

FEATURES

- Available in pre-galvanised grade of mild steel for inland use
- Hot dip galvanised for coastal use where corrosion is high
- Available in precut lengths 900 mm, 1 200 mm, 1 500 mm, 1 800 mm, 2 100 mm, 2 400 mm, 3 000 mm, making it versatile and flexible where different lengths are required
- Backing plates in 2 400 mm and 3 000 mm are available and used on corners or at the end of the fence where a stronger Omega is required
- Lightweight, easy to transport reducing handling time and transport costs
- Can be configured and installed in various ways, refer to our website www.nemtek.com

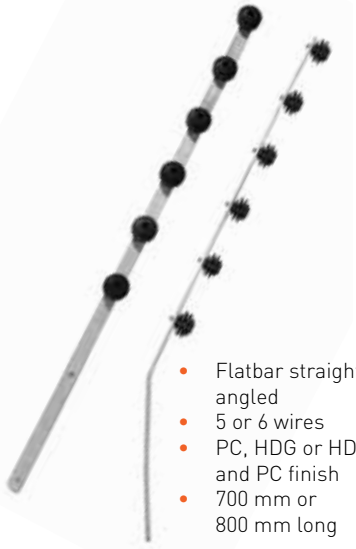
OMEGA DOUBLE SHIELD

WALL TOP BRACKETS AND ACCESSORIES

Nemtek brackets are made to a high standard to maximise security and long life in the field. The bracket forms an integral and very important part of the Nemtek security electric fence. The level of security achieved is directly affected by the choice of bracket, the number of wires forming the electrical barrier and the distance between the brackets. Nemtek offers a large range of brackets to suit most wall types and applications. They are made mainly from steel and are finished in a high quality coating of outdoor powder, or hot dip galvanised for coastal conditions. Our factory can on request manufacture different types of designs and finishes.

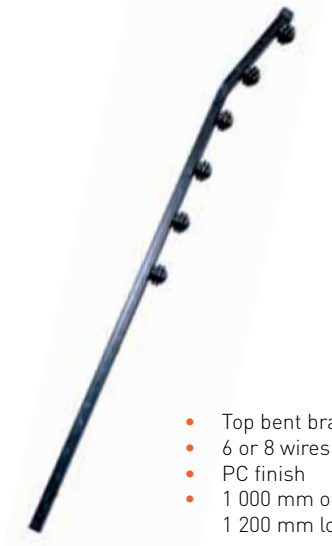
- Round bar
- 5 or 6 wires
- PC or HDG finish
- 600 mm or 750 mm long

- Round bar PVC
- 5 wires
- PVC finish
- 600 mm long



- Flatbar straight and angled
- 5 or 6 wires
- PC, HDG or HDG and PC finish
- 700 mm or 800 mm long

- Squaretube straight and angled
- 6, 8, 10 or 12 wires
- PC finish
- 1 000 mm, 1 200 mm or 1 000 mm long

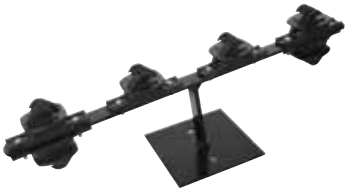


- Top bent bracket
- 6 or 8 wires
- PC finish
- 1 000 mm or 1 200 mm long

- QF bracket straight and angled
- 6,8 or 10 wires
- HDG or HDG and PC finish
- 1 000 mm or 1 200 mm long
- Ideal for coastal use

PC: Powder coated finish, **HDG:** Hot dip galvanised, **HDG and PC:** First hot dip galvanised and then powder coated

- T-pole
- 6 wires
- PC or HDG finish
- 600 mm long



- Profile pole
- 6 wires
- PC or HDG finish
- 340 mm long

WALL TOP BRACKET STAYS

Sturdy construction and support for brackets on corners and end of a fence.

- Different lengths
- PC, HDG or fibreglass finish

STAY SLEEVE

Insulates the stay thus reducing the potential of false alarm.

LUGS

Lugs are used with the stays and are available for both the 8 mm and 10 mm stays.

HAMMER DRIVE NAIL IN ANCHORS

- Nylon plug and screw
- For all bracket sizes
- Zinc for coastal applications

DW LUGS

Plastic lug for 10 mm stays.

COACH SCREWS AND PLUG

- Hot dip galvanised for coastal applications
- Available for the squaretube bracket

MODULUS SYSTEM

COMPONENT LIST

The Patented Modulus brackets are designed with flexibility in mind. By using the different components, a full range of sizes and different applications can be formulated. It gives the installer flexibility on the spacing of the insulators, amount of insulators and height of the fence. The key components are the 2-way and 3-way brackets. The 2-way is primarily used as an intermediate bracket. The 3-way is used as an end tensioning post, as a corner post, to change the wire direction, or as an inline strain post on long straight walls. The Modulus System involves a flexible bracket onto which different components can easily be attached.

MODULUS 2-WAY BRACKET

- 2 660 mm/27 wire EMOD – 2660C
- 2 360 mm/24 wire EMOD – 2360C
- 1 960 mm/20 wire EMOD – 1960C
- 1 160 mm/12 wire EMOD – 1160C
- 960 mm/10 wire EMOD – 960C
- 460 mm/5 wire EMOD – 460C

MODULUS END CAP 19x19
EMOD – BENDCAP

MODULUS SLIDE INSULATOR
EMOD – BSLD

MODULUS MOUNTING BRACKET
Single hole EMOD – BRKT

KEY FEATURES OF THE MODULUS SYSTEM

- Modular design so that it can be assembled on site to fit the needs of the installation
- Durable and can be installed in most harsh environments
- Light to transport, and easy to handle
- Increased security as more wire can be assembled on the bracket when rewired

MODULUS 3-WAY BRACKET

- 2 660 mm/27 wire EMOD – 3WS2660C
- 2 360 mm/24 wire EMOD – 3WS2360C
- 1 960 mm/20 wire EMOD – 3WS1960C
- 1 160 mm/12 wire EMOD – 3WS1160C
- 960 mm/10 wire EMOD – 3WS960C
- 460 mm/5 wire EMOD – 3WS460C

MODULUS END TRIPLE CAP 26x19
EMOD – BENDCAP 3

MODULUS SPACER
EMOD – BSPR

MODULUS HOOK
ES-HK/MOD

FREE STANDING BRACKETS

Nemtek offers an angle iron or round post solution to the free standing corner straining post and end post requirements which generally will be concreted into the ground. Both the round pole and the angle iron versions are predrilled to fit the Nemtek hot dip galvanised hooks, tensioners and strain insulators saving time.

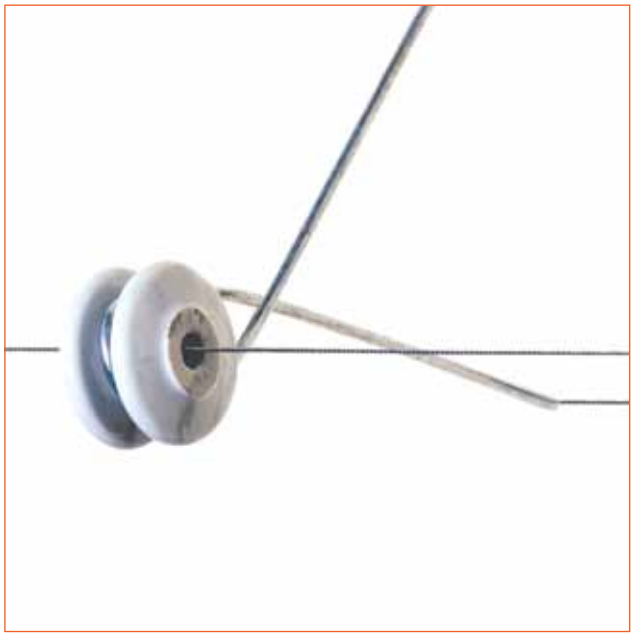
Nemtek standards are a relatively new addition to the intermediate brackets, used with the pop through insulator for higher security needs. The wire cannot be removed from the standard without being cut ensuring an alarm.

Corner and end straining poles	Number of wires	Number of holes	Fence height	Finish	Associated stays
Angle iron 60 x 60 x 6 mm – 2.4m	20	2 x 20	2m	Painted or Hot dip galvanised	Angle 40 x 40 x 5 mm – 2.6m
Angle iron 60 x 60 x 6 mm – 3.0m	24	2 x 24	2.4m	Painted or Hot dip galvanised	Angle 50 x 50 x 5 mm – 3.0m
Round Tube 78 mm x 2 mm – 2.4m	20	2 x 20	2m	Hot dip galvanised	Round 2 x 38 mm – 2.4m
Intermediated posts	**Number of wires**	**Number of holes**	**Fence height**	**Finish**	**Associated insulators**
Nemtek standard 2.4m	20	20	2m	Hot dip galvanised	Pop through, Y standard
Nemtek standard 3.0m	24 /26	26	2.4m/ 2.6m	Hot dip galvanised	Pop through, Y standard
Y standard 2.4m	20	48	2m	Bitumen coated	Y standard
Y standard 3.0m	24	60	2.4m	Bitumen coated	Y standard
Y standard 3.6m	30	72	3m	Bitumen coated	Y standard

Note: Hole spacing may vary depending on the production batch

OFFSET BRACKETS

Offset brackets utilise the strength and rigidity of an existing fence reducing costs of the electric fence system. They are generally used for animal control and are available in 4 mm galvanised high tensile steel.



1. Live wire offset bracket
Available in 225 mm offset and 450 mm. Heavy galvanising option on request.

2. Live and earth wire offset bracket
Available in 225 mm offset and 350 mm. Heavy galvanising option on request.

FENCING WIRES AND CABLES

FENCE WIRES

NEMTEK STRANDED WIRES

The Nemtek Stranded wires are made of high tensile material making them hard to cut thus increasing the level of security. The flexibility offered by the stranded wire construction makes working with this wire easier during installation and results in a neat clean look on the fence without compromising the fence performance.

- Galvanised A grade stranded wire, 1.2 mm, 1.6 mm, 2.0 mm. The larger diameters offer lower electrical resistance for longer fence lines, are hard to cut, and have a longer life span.
- Stainless steel grades 304 and 316 stranded wire, 1.2 mm and 1.6 mm diameter. The stainless steel offers a high resistance to corrosion, giving it a longer life. The 316 grade is the wire of choice for highly corrosive coastal areas.

NEMTEK SOLID WIRES

A variety of solid Nemtek wires are available to address the different environmental, mechanical strength, and electrical resistance requirements.

- Galvanised solid wires, light and heavy galvanised, 2.24 mm diameter. This high tensile wire is generally used for freestanding fencing where a high strength mechanical fence is needed and is generally used for game and animal control fencing applications.
- Stainless steel grade 304 and 316 solid wires, 1.0 mm, 1.2 mm diameter. Solid stainless steel offers a high resistance to corrosion and a longer life span on the fence, with the 316 grade being the wire of choice for highly corrosive coastal areas.
- Aluminium solid wire, 1.6 mm and 2.0 mm wire. Aluminium wire has a very low electrical resistance allowing long fences to be powered up from only one energizer and its high resistance to corrosion offers a long life span on the fence.

	WIRE DESCRIPTION	RESISTANCE (OHMS/KM)	CORROSION GUIDELINE*
Galvanised wire range	Stranded galvanised wire – 1.2 mm Stranded galvanised wire – 1.6 mm Stranded galvanised wire – 2.0 mm Light galvanised high strain wire – 2.24 mm Heavy galvanised high strain wire – 2.24 mm	175 100 60 50 50	Inland – Dry favourable conditions + 50km from coast Inland – Dry favourable conditions + 50km from coast Inland – Dry favourable conditions + 50km from coast Inland – Dry favourable conditions + 50km from coast Marine / Industrial 500 m-3km from coast
Stainless steel 304 grade	Solid stainless steel wire – 1.0 mm Solid stainless steel wire – 1.2 mm Stranded stainless steel wire – 1.2 mm	1 000 700 700	Coastal areas – inland +5-25km from coast Coastal areas – inland +5-25km from coast Coastal areas – inland +5-25km from coast
Stainless steel 316 grade	Solid stainless steel wire – 1.0 mm Solid stainless steel wire – 1.2 mm Solid stainless steel wire – 1.6 mm Solid stainless steel wire – 2.0 mm Stranded stainless steel wire – 1.2 mm	1 000 700 390 250 700	Coastal / Industrial, 0-500m from coast Coastal / Industrial, 0-500m from coast Coastal / Industrial, 0-500m from coast Coastal / Industrial, 0-500m from coast Coastal / Industrial, 0-500m from coast
Aluminium	Aluminium Alloy 1.6 mm solid Aluminium Alloy 2.0 mm solid	27 14	Coastal / Industrial, 0-500m from coast Coastal / Industrial, 0-500m from coast

* This table serves as a guideline only. For more accurate information, please seek professional advice on the corrosion environment and local conditions.

HIGH VOLTAGE CABLE

Nemtek offers a range of High Voltage cables to lead out from your energizer to the fence and for all other insulated high voltage transmissions. The High Voltage cables have been designed for a long life expectancy and low resistance on permanent fencing systems in most weather conditions. All Nemtek High Voltage Cables are double insulated.

S-SERIES HIGH VOLTAGE CABLE

The S-Series High Voltage Cables can be used with all the Nemtek solid and stranded galvanised and stainless steel wire.

- Stranded wires is a flexible cable for ease of use
- Slimline designed for ease of installation and an aesthetically pleasing look
- The 3 core and 4 core S-Series is faster to install than the standard single core high voltage cable

A-SERIES HIGH VOLTAGE CABLE

The A-Series high voltage cable is used with the range of aluminium wires and galvanised earth spikes.

- Ideal for coastal conditions where aluminium wire is used
- Low electrical resistance reducing power and voltage drops over large distances

G-SERIES HIGH VOLTAGE CABLE

The G-Series Alloy High Voltage Cable can be used with all the Nemtek solid and stranded galvanised and stainless steel wire.

- It can be used where an economic version of the S-Series is required
- Double insulated, stranded wires offer a flexible cable for ease of use
- Slimline design for ease of installation and an aesthetically pleasing look
- White or black colour available to match the fence

WIRE AND CABLE CONNECTORS

FERRULES

- Available in tinned copper, aluminium and stainless steel
- Ferrules offer a permanent connection and cannot be removed offering a high security connection
- Good mechanical connection for a good electrical conductivity
- Tinned copper is available in 6 mm, 10 mm and 16 mm; aluminium in 6 mm and 10 mm; and stainless steel in 6 mm

LINE CLAMPS

The line clamps are used for the larger wire diameters.

- Can connect after the wire has been installed
- Galvanised for a long life

INSULATOR RANGE

PLASTIC INSULATORS

Nemtek offers a range of plastic and porcelain insulators. The plastic products are designed for a long life. They are all UV stabilised for external use and only virgin materials are used in their manufacture.

	ROUND BAR INSULATOR • used with the 10 mm roundbar • flexible inner core for increased clearance • black and white
	FLAT BAR INSULATOR • quick fit clips on the top and bottom for faster installation • feed through clip option built in • easy to change and maintain • black and white
	QF INSULATOR FOR SQUARE TUBING • longer tracking distance for less arcing • feed through clip option built in • black and white
	NAIL ON INSULATOR • large clips for heavy duty applications with thicker wires • larger clearance to eliminate power leakage • black and white
	Y STANDARD INSULATOR • quick fit design – easy to replace when required • suitable for Omega and Y standard brackets • anti-climb shear pin • black and white
	ULTRA Y STANDARD INSULATOR • double tracking fin to reduce tracking and arcing • quick fit design clip • anti-climb version available • black and white
	POP THROUGH HOLE INSULATOR • secure through insulator • larger creepage distance to reduce power loss and arcing • black and white

	STRAIN INSULATOR • suitable for fences using up to 2.2 mm wire • larger creepage distance to reduce power loss • black and white
	ULTRA STRAIN INSULATOR • suitable for fences using up to 3 mm wire • larger creepage distance to reduce power loss • black and white
	TENSION BOBBIN INSULATOR • heavy duty large insulator • used with offset bracket where fire is not a concern • black only

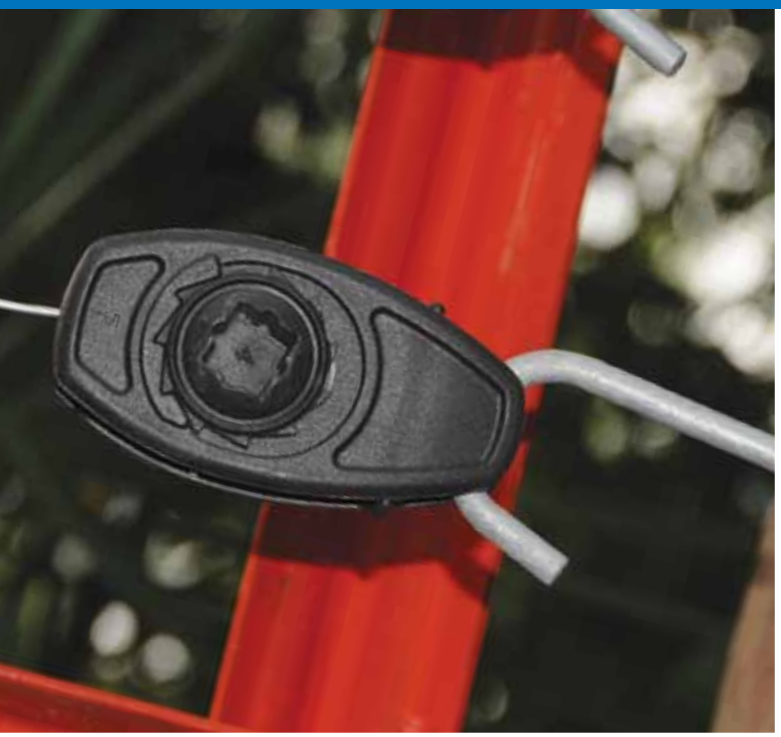
PORCELAIN INSULATORS

Fireproof insulators are generally used on game farms or farms where the likelihood of fire is high. These Nemtek insulators are made of porcelain and can withstand high temperatures for a prolonged period of time.

FEATURES
- Fireproof
- Large design to reduce power loss
- Suitable for long runs
- Can withstand high tension

GATE CONTACTS

HEAVY DUTY SLIDING GATE CONTACT WITH ALUMINIUM MOUNTING BRACKET
- Used for series wiring of the gate
- Suitable for any sliding gate
- Robust construction using stainless steel and brass, making it suitable for outdoor use in most climates
- Large location plates allow for increased tolerance



WIRE TENSIONING SYSTEMS

TENSIONING SYSTEMS AND ACCESSORIES

COMPRESSION SPRING LIMITER

- Available in a standard tension (silver) spring which can tension 1.2 mm wires and a heavy tension (gold) spring which can tension up to 1.6 mm wires
- It eliminates galvanic reaction between dissimilar metal thus reducing rust and can be used with any type of wire
- Available in black and white for aesthetic reasons

MINI NYLON TITAN TENSIONER

- The fence needs to be tensioned after installation, especially when the system needs maintenance due to sagging wires
- It eliminates galvanic reaction between dissimilar metal thus reducing rust
- Ideal for tensioning wires up to 1.2 mm galvanised or stainless steel, and up to 1.6 mm aluminium wire
- A large headed screwdriver, which is generally easily available, is used to turn the spindle

HYBRID NYLON TENSIONER

- Offers what the compression spring and the mini nylon titan has to offer in one easy to use system. Available in a standard tension (silver) spring which can tension 1.2 mm wires and a heavy tension (gold) spring which can tension up to 1.6 mm wires
- Combination of two tensioning systems, an active system to expand and compress as required, and the mini titan can take up any slack that has been created over time

HYBRID BB HEAVY DUTY NYLON TENSIONER

- A hardy heavy duty tensioner for all weather types
- Can tension from a 1.2 mm up to a 2.5 mm wire, making it very versatile
- It eliminates galvanic reaction between dissimilar metal thus eliminating rust and can be used with any type of wire

STANDARD TENSIONER

- Galvanised permanent fence wire strainer
- Can tension from a 1.2 mm up to a 2.5 mm wire
- Only used for galvanised wires to avoid galvanic reaction

COMBO TENSIONER STANDARD

- Insulator and tensioning system combined, minimising the need for an insulator
- Hot dip galvanised body
- Can tension from a 1.2 mm up to 2.5 mm wire
- Only used for galvanised wires to avoid galvanic reaction

COMBO TENSIONER PORCELAIN

- Insulator and tensioning system combined
- Hot dip galvanised body
- Fireproof insulator

LARGE TAIL HOOK

- Stainless steel hook for long life expectancy
- Large tail to fit the Nemtek range of tensioning devices
- Quick fit onto the Nemtek round and flat bar insulator
- **Heavy duty 2.5mm large tail hooks available**

HOOK BOLT

- Electro galvanised hook bolt, so only suitable for inland use
- Adjustable nut for finer adjusting

S-HOOK

- Hot dip galvanised for long life expectancy
- Heavy duty durable design
- Suitable for the Omega brackets, angled and round corner poles

GENERAL FENCING ACCESSORIES

FENCING TOOLS AND WIRE DISPENSERS

LARGE WIRE DISPENSER
- Portable design

BRAIDED WIRE REEL HOLDER
- Hot dip galvanised wire dispenser

KNIPPEX WIRE CUTTER
- Designed for high tensile wire cutting

PROFESSIONAL CRIMPING TOOL
- Durable ferrule crimping tool

HALF INCH RACHET
- For the Hybrid BB heavy duty tensioner

Y STANDARD POST DRIVER
- Used as a hammer to drive Y standards into the ground

DISTANCE MEASURING WHEEL
- Quick, walk along distance measuring tool

FENCE SCOPE™ MULTI TOOL

Helping you diagnose problems and optimise your electric fence installation

FOUR USES SELECTABLE MODES OF OPERATION

- Fence Probe – quickly indicates the direction of a fault, showing the voltage and current
- Fence Energy – accurately measures the output energy (joules)
- Fence Scope – can record and display the waveform of the pulse
- Fence Noise – shows the amount of electromagnetic interference generated by the fence or energizer

FEATURES

- Advanced high speed 16bit microprocessor design
- Large graphic display with resolution of 128 x 64 picture elements
- Backlit display for ease of reading in low light conditions
- Audio tone frequency output varies depending on the voltage for a quick measurement
- Intelligent auto off function for non intrusive battery life extension
- Internal battery voltage measurement for precise battery status
- Simple five key user interface
- Designed for use up to 16kV
- Supplied with high quality test clips and leads
- Supplied with additional external load resistor assembly enabling characterisation of an energizer at 500 Ω
- Handy carry case available as an optional extra

PHYSICAL SPECIFICATIONS

Display (LCD)	128 x 64 pixels, landscape orientation, 1bit/pix colour depth
Operating Temperature	-10 °C to +50 °C
Storage Temperature	-20 °C to +60 °C
Battery Type	9V alkaline, 6LR6 / PP3, (17 mm x 26 mm x 48 mm)
Battery Life	50 hours typical (without using backlight)
Size	102 mm W x 50 mm H x 192 mm L
Weight	298g (with battery), 251g (without battery)

ENERGIZER ENCLOSURES

METAL ENCLOSURE

- Powder coated metal enclosure with an inspection window
- Available in three sizes:
  – (h) 560 x (w) 310 x (d) 200
  – (h) 610 x (w) 460 x (d) 200
  – (h) 600 x (w) 800 x (d) 300

FIBREGLASS ENCLOSURE

- Weatherproof plastic
- For coastal applications with a stainless steel latch
- (h) 450 x (w) 300 x (d) 80

GATE HANDLE AND SPRINGS

INSULATED HANDLE WITH HOOK

- Gate handle used with the galvanised spring
- Non slip grip

GALVANISED SPRING 3.5M

- Used together with the insulated handle with hook to secure gates

GATE HANDLE WITH SPRING

- Used to secure gate

EARTH SPIKES

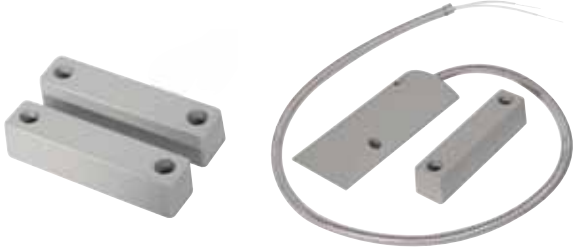
- Galvanised earth spike with nuts and washer

- Copper earth spike with nuts and washer

CUT OUT SWITCH

- Isolates section of fence to allow for easy maintenance and fault finding

MAGNETIC CONTACTS



- Magnetic contacts are made of aluminium and are used to monitor the status of a pedestrian or vehicle gate

WARNING DEVICES

WARNING SIGNS

- Custom-made version available to order
- UV protected for long life
- Wire clips on the warning sign reduce installation time
- Compliance requirements, every 10m and change of direction
- IEC 60335-2-76 compliance

FENCELIGHT

- Install it on your electric fence to indicate power status for peace of mind
- One directional viewing angle, allowing the light to shine into the secure area only. The status is not visible to external areas
- Working voltage between 3 kV and 12 kV approximately
- Dual stage design allows the intensity on the light to increase as the voltage on the fence increases, giving a better indication of how much voltage is on the fence
- Can be installed between any earth and live wires
- Can be used with most electric fence energizers

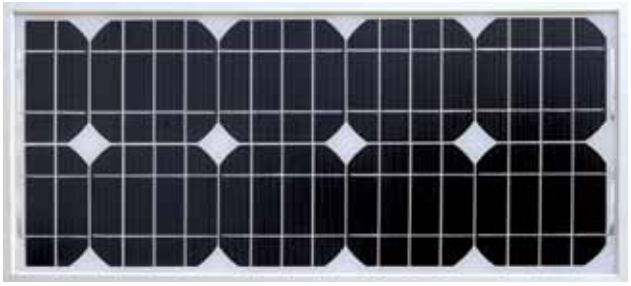
SIRENS

- Alarm sounds fence condition when in alarm
- Available in 15 and 25 watt power output
- 12 volt DC supply

STROBE LIGHTS

- Visual indicator of an alarm
- Used to show the status of a fence after an alarm condition offering a visual alarm event memory
- 12 volt DC supply

SOLAR PANELS



Nemtek solar panels offer a renewable source of energy and are ideal for the needs of security electric fencing, game electric fencing and for the agricultural industry.

FEATURES

- Ease of access. In remote areas or over long distances, access to mains power can be difficult or expensive to run.
- Cost-effective. The solar panel harnesses the energy of the sun, stores it into a battery, and then uses it when needed – so no monthly costs.
- Uninterrupted power. The loss of power renders any security system useless. A solar powered backup can ensure no loss of power as a result of power cuts.

Module Characteristics:	SOL-SYS2W	SOL-SYS5W	SOL-SYS10W	SOL-SYS20W	SOL-SYS40W	SOL-SYS85W	SOL-SYS140W
Maximum Power (Pmax)	2 Watt	5 Watt	10 Watt	20 Watt	40 Watt	85 Watt	140 Watt
Voltage at Pmax	17.2V	17.2V	17.2V	17.2V	17.2V	17.2V	17.2V
Current at Pmax	0.12A	0.29A	0.58A	1.16A	2.32A	5.23A	8.14A
Open-circuit voltage (Voc)	21.6V	21.6V	21.6V	21.6V	21.6V	21.6V	21.6V
Short-circuit current (Isc)	0.14A	0.33A	0.68A	1.31A	2.57A	5.95A	9.26A
Operating temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Weight	0.35 kg	0.45 kg	0.6 kg	2.6 kg	4.2 kg	8 kg	11.5 kg
Module dimensions	186 x 140 x 18 mm	251 x 205 x 18 mm	385 x 280 x 30 mm	646 x 290 x 30 mm	646 x 580 x 30 mm	1198 x 546 x 35 mm	1492 x 670 x 35 mm

BATTERIES

Battery Characteristics:	BAT-B55	BAT-B100
Nominal Voltage	12V	12V
Nominal Capacity	55Ah	100Ah
Type	Deep Cycle – Discharge – Sealed Rechargeable Battery	
Weight	17.5 kg	29.8 kg
Dimensions	253 x 161 x 250 mm	351 x 192 x 265 mm

REGULATOR

The efficient Nemtek LCD solar controller will minimise power losses when regulating the voltage while charging the battery. The controller is equipped with various devices to protect its electronics against:

- reverse polarity of the solar modules
- reverse polarity of the load and the battery
- overcharging and deep discharging of the battery

The controller will record and display information such as battery voltage, charging current, load current, battery charging and discharging on the LCD.

Regulator Characteristics:	SOL-PCS10-24C	SOL-PCS15-24C
System voltage	12V / 24V	
Maximum charge current	10A	15A
Maximum load current	10A	15A
Maximum consumption current	12mA	
Final charging voltage (floating charge)	Liquid: 13.9V / 27.8V Gel: 14.1V / 28.2V	
Fastest charge voltage	14.4V / 28.8V (2:00h)	
Even charge (except gel battery)	14.7V / 29.4V (2:00h)	
DOD recovery value (SOC/LVR)	›50% SOC (12.6V / 25.2V)	
DOD protecting value (SOC/LCD)	‹30% SOC (11.1V / 22.2V)	
Operating temperature	-10°C to 50°C	
Installation	Wall Installation	
Weight	0.35 kg	
Dimensions	187 x 96 x 44 mm	

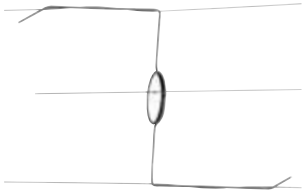
MOUNTING BRACKET

Quick and easy to install onto most of the Nemtek solar panels.

Mounting Bracket Characteristics:	SY-SYZ040R
Adjustment Angle:	15°, 30° and 45°
Weight	2.4 kg
Dimensions	580 x 50 x 30 mm
Use on Panel	20W, 40W, 85W and 140W
Material Thickness	4 mm
Material Composition	Extruded Aluminium
Fasteners	Stainless Steel

EARTH LOOPS AND BRIDGING WIRES

Earth loops are used to enhance the level of security offered by an electric fence by detecting attempted separation of fence wires and leaving just enough room for natural movement of the live wire. When the earth wire touches the loop a connection is made and the alarm will sound.

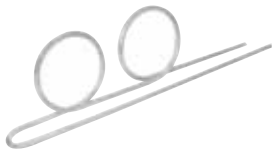


IN LINE LOOP

- Installed onto the fence wire, generally between the earth wires
- Available in galvanised for the galvanised wires and in stainless steel for the stainless steel wires

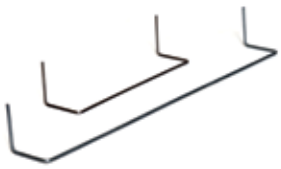
WALL MOUNTED EARTH LOOPS

- Installed onto the wall protecting the bottom wires on a wall top fence
- They offer protection against lifting of the fence wires
- Available in stainless steel, angled or straight depending on the type of Nemtek bracket used



GROUND ANTI CREEP LOOP

- Used in the free-standing applications to reduce the possibility of lifting of the fence
- Concreted for maximum stability
- Available in hot dip galvanised finish for a long life



QUICK FIT BRIDGING WIRE

- Neat finish
- Available in 100 mm and 200 mm stainless steel and galvanised finish
- Reduces installation time
- Hard to cut

LIGHTNING DIVERTERS

Lightning and power surge are the most common cause of electronic failure in energizers. Nemtek energizers have extensive lightning protection built into the units to help reduce the possibility of damage. Additional external lightning protection reduces the likelihood of surge coming through the fence wires and the mains supply into the energizer. Lightning kits help divert any power surge that may occur on the fence line away from the energizer and into the ground.

Nemtek offers four kits for protecting the energizer from surges:

LDK1. Offers protection for a single zone fence energizer
LDK2. Offers protection for a single zone fence energizer as well as mains protection
LDK3. Offers protection for a dual zone fence energizer
LDK4. Offers protection for a dual zone fence energizer as well as mains protection

GPS™
Perimeterlarm
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